

CLAIMS

We claim:

1. A method of selecting channels, the method comprising:  
    identifying channels used for transmissions in an area; and  
    scanning said identified channels.
2. A method as in claim 1, comprising identifying a wireless basic service set operating in said area.
3. A method as in claim 2, wherein said identifying said wireless basic service set comprises assuming a service set is a same service set with which a station recently associated.
4. A method as in claim 1, comprising identifying a basic service set operating in said area.
5. A method as in claim 1, wherein said identifying comprises referring to a list of at least one channel used in said area.
6. A method as in claim 1, comprising selecting a channel upon which to associate.
7. A method as in claim 6, wherein said selecting includes at least evaluating a quality of transmission of at least one of said identified channels.
8. A method as in claim 1, comprising updating a list of channels used by transmitting devices in said area with data collected in a scan of said identified channels.
9. A method as in claim 1, comprising updating a list of service sets with service sets that are identified during said scanning.
10. A method as in claim 1, comprising ordering said identified channels based on data collected about said channels.

11. A wireless communication device comprising:
  - a memory to store data about at least one channel used by transmitters associated with an area; and
  - a processor to select for scanning said at least one channel.
12. A device as in claim 11, wherein said processor is to detect a service set and select at least one channel used for transmissions with said service set.
13. A device as in claim 11, wherein said processor is to detect a basic service set operating in said area and to select at least one channel used for transmissions in an area of said basic service set.
14. A device as in claim 11, wherein said memory is to store data about channels used for transmissions with at least one service set.
15. A device as in claim 11, wherein said memory is to store data about transmitters in an area of a basic service set.
16. A device as in claim 11, wherein said processor is to select an access point for association based on a quality of transmission with said access point.
17. A device as in claim 11, wherein said processor is to update said memory with data collected in said scanning.
18. A device as in claim 11, wherein said processor is to order for scanning said at least one selected channel based on data collected in past associations on said at least one selected channel.
19. An article comprising a storage medium having stored thereon instructions that, when executed by a processor, result in:
  - identifying channels to be scanned in an area; and
  - scanning said identified channels.

20. An article as in claim 19, wherein said execution of said instructions further result in updating a table of said identified channels with data collected during a scan.

21. An article as in claim 19, wherein said execution of said instructions further result in ordering said identified channels for scanning based on data collected on said channels.

22. A communication device comprising:

a dipole antenna;

a controller to identify channels used for transmissions in an area; and

a memory to store data about at least one channel used by transmitters in an area.

23. A communication device as in claim 22, wherein said controller is to detect a service set operating in said area and select at least one channel used for transmissions with said service set.

24. A communication device as in claim 22, wherein said controller is to update a table of channels with data collected in during said scan.

25. A communication system comprising:

a station;

an access point;

a controller to identify channels to be scanned in an area; and

a memory to store data about at least one channel used by transmitters in an area.

26. A communication system as in claim 25, wherein said controller is used to detect a service set in said area.

27. A communication system as in claim 25, wherein said controller is to update a table of said identified channels with data collected on said at least one channel.